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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/562,843	05/15/2006	Luke Alphey	138-05	5995	
23713 7590 68/25/2011 4875 PEARL EAST CIRCLE			EXAMINER		
			KETTER, JAMES S		
SUITE 200 BOULDER, C	O 80301		ART UNIT	PAPER NUMBER	
,			1636		
			MAIL DATE	DELIVERY MODE	
			08/25/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)		
10/562,843	ALPHEY, LUKE		
Examiner	Art Unit		
JAMES KETTER	1636		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

earr	ned patent	term ac	ljustment.	See 37	CFR	1.704(b).

Status						
2a)	Responsive to communication(s) filed on 16 June 2011.  This action is FINAL. 2b  This action is non-final.  An election was made by the applicant in response to a restriction requirement set forth during the interview on					
4)	; the restriction requirement and election have been incorporated into this action.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
6) 🖾 7) 🖾 8) 🗆	Claim(s) 1-4.6-13.19-27.29-35 and 37-39 is/are pending in the application.  5a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 1-4.6-13.19-26.29-35 and 37-39 is/are allowed.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
11)	The specification is objected to by the Examiner.  The drawing(s) filed on 28 December 2005 is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	nder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  All   b)					
Attachmen	(s)					
2) Notice 3) Inform	e of References Cited (PTO-892)  and Ptaffsportson's Pathen Drawing Review (FTO-942)  and Draftsportson's Pathen Drawing Review (FTO-942)  Paper Nols/Mail Date.  5) Notice of Informal Patent Application  Nols/Mail Date  6) Other:					
Pape J.S. Patent and T PTOL-326 (R	ademark Office					

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Claims 1-4, 6-13, 19-26, 29-35 and 37-39 are allowed.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 27 stands rejected under 35 U.S.C. 102(b) as being anticipated by Rong et al. (of record).

At the remarks filed 16 June 2011, Applicant argues that an insect produced by the recited method would possess a duplication/tandem repeat of the target sequence, e.g., TTAA for piggyBac. First of all, however, there is no limit on the target sequence, which is determined by the transposase system selected for practice of the invention. Second, even for just the piggy Bac-based system, the octomer TTAATTAA would be expected to occur at random every 65,536 bases, producing over 2500 expected occurrences in the genome of <a href="Drosophila">Drosophila</a> melanogaster. Thus, it would not have been possible to distinguish in such a fly whether any of these sites were the result of a recombination event as set forth in the grounds of the rejection or a natural or wild-type segment of the sequence. Natural genomic variation between individuals in a population, and more importantly, between populations, of a species of insect would make it impossible to determine if any particular individual were the result of the recited method or merely a naturally occurring variant. Thus, the insects produced by Rong et al. would not have been distinguishable from the other members of the species.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Ketter whose telephone number is 571-272-0770. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Ardin Marschel can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSK 25 August 2011

/James S. Ketter/ Primary Examiner, Art Unit 1636